

Title (en)
METHOD FOR PRODUCING RE-Ba-Cu-O OXIDE SUPERCONDUCTOR

Title (de)
VERFAHREN ZUR HERSTELLUNG VON RE-Ba-Cu-O-OXID-SUPRALEITER

Title (fr)
MÉTHODE POUR PRODUIRE UN SUPRACONDUCTEUR EN OXYDE DE RE-Ba-Cu-O

Publication
EP 1770190 A4 20101124 (EN)

Application
EP 05762065 A 20050712

Priority
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Abstract (en)
[origin: EP1770190A1] A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor, characterized by using an RE-Ba-O-based compound (RE being one type or two types or more of rare earth elements) and a Ba-Cu-O-based material for liquid phase as a starting material, melting the material for liquid phase, then growing the crystal.

IPC 8 full level
C30B 29/22 (2006.01); **C30B 28/04** (2006.01); **H01L 39/24** (2006.01)

CPC (source: EP US)
C01G 3/00 (2013.01 - EP US); **C04B 35/4504** (2013.01 - EP US); **C04B 35/6303** (2013.01 - EP US); **C04B 35/653** (2013.01 - EP US); **C30B 28/04** (2013.01 - EP US); **C30B 29/22** (2013.01 - EP US); **H10N 60/0268** (2023.02 - EP US); **C01P 2006/42** (2013.01 - EP US); **C04B 2235/3215** (2013.01 - EP US); **C04B 2235/3224** (2013.01 - EP US); **C04B 2235/6565** (2013.01 - EP US); **C04B 2235/6584** (2013.01 - EP US)

Citation (search report)
• [XY] EP 0305179 A1 19890301 - UNIV ARKANSAS [US]
• [Y] HU A ET AL: "Growth of single-domain (Sm_{0.5}Eu_{0.5})Ba₂Cu₃O_{7-d} with high T_c and J_c by employing a thermal gradient", APPLIED PHYSICS LETTERS, vol. 78, no. 17, 23 April 2001 (2001-04-23), pages 2539 - 2541, XP012027832, ISSN: 0003-6951
• [Y] SUDHAKAR REDDY E ET AL: "Fabrication of textured REBa₂Cu₃O₇/RE₂BaCuO₅ (RE=Y,Gd) composites by infiltration and growth of RE₂BaCuO₅ preforms by liquid phases", SUPERCONDUCTOR SCIENCE AND TECHNOLOGY, vol. 11, no. 5, 1 May 1998 (1998-05-01), pages 523 - 534, XP000742429, ISSN: 0953-2048
• See references of WO 2006011389A1

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